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FILE 'BIOSIS' ENTERED AT 23:55:57 ON 25 APR 2008
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FILE 'MEDLINE' ENTERED AT 23:55:57 ON 25 APR 2008

=> polyethylene glycol and (purified or purifying) and ion exchange
L1 412 POLYETHYLENE GLYCOL AND (PURIFIED OR PURIFYING) AND ION EXCHANGE

=> l1 and ion exchange chromatography
L2 235 L1 AND ION EXCHANGE CHROMATOGRAPHY

=> l2 and (branched polymer or multi-armed polymer)
L3 0 L2 AND (BRANCHED POLYMER OR MULTI-ARMED POLYMER)

=> l2 and purified polymer
L4 0 L2 AND PURIFIED POLYMER

=> (branched polymer or multi-armed polymer)
L5 3188 (BRANCHED POLYMER OR MULTI-ARMED POLYMER)

=> l5 and (purified or purifying)
L6 43 L5 AND (PURIFIED OR PURIFYING)

=> l6 and (polyethylene glycol or peg)
L7 1 L6 AND (POLYETHYLENE GLYCOL OR PEG)

=> d l7 bib abs

L7 ANSWER 1 OF 1 CA COPYRIGHT 2008 ACS on STN
AN 142:336828 CA
TI Method for preparing branched polyethylene glycol
IN Su, Zhiguo; He, Minglei
PA Institute of Process Engineering, Chinese Academy of Sciences, Peop. Rep.
China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 13 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| | ----- | ---- | ----- | ----- | ----- |
| PI | CN 1461762 | A | 20031217 | CN 2002-120740 | 20020530 |
| PRAI | CN 2002-120740 | | 20020530 | | |
| AB | The method comprises reacting lysine (diamino acid, or polyamino acid) with HCl in anhydrous ethanol, esterifying to obtain lysine Et ester HCl; oxidizing methyl-polyethylene glycol with MnO2 at room temperature overnight then with 3% H2O2 for 24 h, separating on Bio-Rad Ag1*2 resin column with 0.02M HCl as eluent to obtain carboxymethylated mPEG; allowing to react lysine Et ester HCl (at a molar ratio of 2-4:1) in dichloromethane in the presence of triethylamine, dicyclohexylcarbodiimide, and N-hydroxysuccinimide at room temperature for 24 h, separating to obtain crude product; purifying on Biogel P100 5*50 column with water as eluent, extracting with dichloromethane, and recrystg. in ethanol. | | | | |

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